

PRACTICE QUESTIONS SET-1

1. Ram, Sham and Suresh start business investing in the ratio $\frac{1}{2} : \frac{1}{3} : \frac{1}{6}$. The time for which each of them invested their money was in the ratio 8:6:12 respectively. If they get profit of Rs.18000 from the business, then how much share of profit will Ram get?

- a. Rs.4000
- b. Rs.6000
- c. Rs.8000
- d. Rs. 10000

2. The ratio of the number of boys and girls in a college is 7 : 8. If the percentage increase in the number of boys and girls be 20% and 10% respectively, what will be the new ratio?

- a. 8 : 9
- b. 17 : 18
- c. 21 : 22
- d. Cannot be determined

3. p,q and r are three positive numbers and $Q = (p+q+r)/2$; If $(Q-p):(Q-q):(Q-r) = 2:5:7$, then find the ratio of p,q and r ?

- a. 4:3:7
- b. 12:9:7
- c.9:7:4
- d. 4:3:2

4.A and B together have Rs. 1210. If $\frac{4}{15}$ of A's amount is equal to $\frac{2}{5}$ of B's amount, how much amount does B have?

- a. Rs. 460
- b. Rs. 484
- c. Rs. 550
- d. Rs. 664

5. Two numbers are respectively 20% and 50% more than a third number.The ratio of the two numbers is

- a. 2 : 5
- b. 3 : 5
- c. 4 : 5
- d. 6 : 7

6. The ratio of the cost prices of two articles A and B is 4:5.The articles are sold at a profit with their selling prices being in the ratio 5:6.If the profit on article A is half of its cost price, find the ratio of the profits on the articles A and B?

- a. 7:10
- b. 9:11
- c. 5: 9
- d. 10:11

7. A sum of money is to be distributed among A, B, C, D in the proportion of 5 : 2 : 4 : 3. If C gets Rs. 1000 more than D, what is the total amount?

- a. Rs. 14000
- b. Rs. 15000
- c. Rs. 20000
- d. None of these

8. If Rs. 782 be divided into three parts, proportional to $\frac{1}{2} : \frac{2}{3} : \frac{3}{4}$, then the first part is:

- a. Rs. 182
- b. Rs. 190
- c. Rs. 196
- d. Rs. 204

9. A bag contains 50 paise, 20 paise and 10 paise coins in the ratio 5:3:1. If the total amount in the bag is 640 Rs, find the difference in the amounts contributed by 50 paise and 20 paise coins.

- a. Rs. 300
- b. Rs. 400
- c. Rs. 380
- d. None of these

10. The speed of an engine is proportional to the square root of the number of wagons attached to it. Without any wagons attached to it the speed of the engine is 60 km/hr. With 16 wagons attached to it the speed of the engine is 40 km/hr; find the maximum number of wagons that can be attached so that the train moves.

- a. 144
- b. 145
- c. 142
- d. 143

PRACTICE QUESTIONS SET-2

11. If 0.4 of a number is equal to 0.06 of another number, the ratio of the numbers is :

- a) 2 : 3 b) 3 : 4 c) 3 : 20 d) 20 : 3

12. The ratio of incomes of two persons P1 and P2 is 5 : 4 and the ratio of their expenditures is 3 : 2. If at the end of the year, each saves Rs. 1600, then what is the income of P1?

- a) Rs. 800 b) Rs. 2400 c) Rs. 4000 d) 3200

13. The mean proportional between 234 and 104 is :

- a) 12 b) 39 c) 54 d) None of these

14. The seats in an Engineering college for Computer science, electronics and civil are in the ratio of 5 : 7 : 8. There is a proportion to increase these seats by 40%, 50% and 75% respectively. What will be the ratio of increased seats ?

- a) 2 : 3 : 4 b) 6 : 7 : 8 c) 6 : 8 : 9 d) none of these

15. If 96 is divided into four parts proportional to 5, 7, 4, 8 then the smallest part is :

- a) 16 b) 14 c) 20 d) 18

16. The Price of 357 apples is Rs. 2499. What will be the price of 49 dozens of such apples?

- a) Rs. 3800 b) Rs. 2816 c) Rs. 4116 d) Rs. 3116

17. Some ladies can do a piece of work in 12 days. Two times the number of such ladies will do half of that work in :

- a) 6 days b) 4 days c) 12 days d) 3 days

18. A piece of work can finish by a certain number of men in 100 days. If however, there were 10 men less, it would take 10 days more for the work to be finished. How many men were there originally?

- a) 75 b) 82 c) 100 d) 110

19. It takes 10 days for digging a trench of 100 m long, 50 m broad and 10 m deep. What length of trench, 25 m broad and 15 m deep can be dug in 30 days ?

- a) 400 m b) 200 m c) 100 m d) 89m

20. A wheel rotates 10 times every minute and moves 20 cm during each rotation. How many metres does the wheel move in one hour?

- a) 6 metre b) 12 metre c) 120 metre d) 1200 metre